

Annexure-23

FacultyProfileabriefWriteupwithMaximum150-200words

-ShortOne

Faculty	Dr. Manoj Kumar C, M.Sc., Ph.D. Assistant Professor Department of Mathematics EastPointCollegeofEngineering&Technology
	Profile* Dr. Manoj Kumar C holds a Ph.D. in thermal analysis of nanofluids through numerical methods from Presidency University, Bengaluru, M.Sc. in Mathematics from Bengaluru North University, and B.Sc. degree in Applied Sciences (Physics, Chemistry, Mathematics) from Bangalore University, Bengaluru. his research explores advanced numerical methods,nanofluids and MHD-driven flows using computational and AI-based models. He is passionate about interdisciplinary research that integrates mathematics, computation, and data-driven approaches.Dr. Manoj’s scholarly output includes multiple Scopus- and Web of Science-indexed publications in reputed international journals such as <i>Advances in Nano Research</i>, <i>ZAMM</i>, and <i>Journal of Nanofluids</i>, etc. He has presented his research findings at prestigious international and national conferences, reflecting his dedication to advancing interdisciplinary scientific inquiry. Beyond teaching and research, Dr. Manoj contributes to the academic community as a reviewer for international journals, and as an organizing member of academic events, workshops, and seminars. His long-term vision is to contribute toward innovative, interdisciplinary mathematical modeling that combines computational precision with AI-based predictive intelligence, bridging the gap between theoretical mathematics and real-world engineering systems.
	Publications • C. Manoj Kumar, & Benazir, A. J. (2023). Impact of Flow, Heat and Mass Transfer of Newtonian and Non-Newtonian Nanofluids Flow over a Non-Darcy Stretching Sheet in the Context of Fuel Applications. <i>Journal of Mines, Metals and Fuels</i>, 71(10), 1754-1763.https://doi.org/10.18311/jmmf/2023/35052. • Manoj C Kumar, Jasmine Benazir, (2024), Numerical and Statistical Analysis of Newtonian/non-Newtonian Traits of MoS₂-C₂H₆O₂ nanofluids over a porous surface with variable fluid properties, “<i>Advances in Nano Research</i>,” 16(4), 341-352.DOI: https://doi.org/10.12989/anr.2024.16.4.341. • C. Manoj Kumar, Jasmine Benazir, (2024), A comparative study of Newtonian and non-Newtonian nanofluids with variable thermal conductivity over a 3-D stretching surface “<i>Journal of nanofluids</i>,” 13(2), 600-613.https://doi.org/10.1166/jon.2024.2141. • Kumar, C. M., & Benazir, A. J. (2025). Bioconvective flow of blood suspended with AuNPs over a stretching sheet with variable porosity and permeability. <i>Numerical Heat Transfer, Part A: Applications</i>, 1–23. https://doi.org/10.1080/10407782.2024.2389337 • Manoj Kumar C, Jasmine Benazir, (2024), Numerical Investigation of Heat and Mass Transfer of SWCNT/MWCNT-Water Suspension over a Porous Stretching Sheet using Sisko Fluid Model “<i>ZAMM - Zeitschrift fur AngewandteMathematik und Mechanik</i>”. e2002300573.https://doi.org/10.1002/zamm.202300573. Books • Anand, M. C., Devana, P. S., Pushpalatha, A. P., Kumar, C. M., Myna, R., & Ramaprakash, C. (2025). Strategic Integration of WASPAS Method for Effective Traffic Management and Congestion Control. In T. Nguyen & D. Pradhan (Eds.), <i>Networking, Transport, and Quality of Service in</i>

	<i>Vehicular Networks</i> (pp. 193-220). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3693-6422-2.ch010
	Journals
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	Magazines
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	Conferences
	• Presented Paper entitled “Numerical investigation of Sisko fluid over a bidirectional permeable stretching sheet with variable thermal conductivity” at the “International Conference on Applied Mathematics Models (ICAMM 2023)” organized by PSG College of Technology, Coimbatore on 4th January 2023. • Presented Paper entitled “Significance of MHD on Sisko nanofluid over a porous stretching sheet” at the “International Conference on Global Trends and Subtleties in Contemporary Mathematical Research (IGCMR’23)” organized by PG & Research Department of Mathematics on 24th March 2023. • Presented Paper entitled “Impact of flow, heat, and mass transfer of Sisko nanofluids flow over a non-Darcy stretching sheet” in the “National Symposium on Current and Futuristic Trends in Nano Science and Technology (NSNST–2023)” Organized by Presidency University, Bengaluru on 12-13 April 2023. • Presented Paper entitled “Numerical computation of heat and mass transfer of nanofluid (Al₂O₃-C₂H₆O₂) flow over a porous stretching sheet with non-linear thermal radiation and convective boundary conditions” in the “68th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM-2023)”, Organized by National Institute of Technology, Warangal on 7-9 December, 2023. • Presented paper entitled “Artificial Neural Network Modelling of Thermal Properties of Al₂O₃-C₂H₆O₂ Nanofluid on a Stretching Sheet with Convective Boundary Conditions” in the “International Conference on Computational Mathematics in the Era of Data Science & Artificial Intelligence”, Organized by Dayananda Sagar College of Engineering, Bengaluru on 21-22, Feb, 2025. • Presented paper entitled “Numerical and ANN modeling-based thermal analysis of Ag-Blood nanofluid flow over a porous medium” in the “1st International Conference on Advances in Fluid Dynamics”, Organized by Sapthagiri NPS University, Bengaluru on 21-22, march, 2025.
	Achievements/Awards/Recognitions
	• Best Research Scholar Award.



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WebsiteContents

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